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(54) Title: SQUALENE SYNTHASE 8SQS9 GEN

(57) **Abstract:** The present invention relates to a gene useful in a process to increase the microbial production of carotenoids. The carotenoids astaxanthin is distributed in a wide variety of organisms such as animals, algae and microorganisms. It has a strong antioxidation property against reactive oxygen species. Astaxanthin is used as a coloring reagent, especially in the industry of farmed fish, such as salmon, because astaxanthin imparts distinctive orange-red coloration to the animals and contributes to consumer appeal in the marketplace.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/10573

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12P23/00 C12N9/10 C12N15/81 //(C12P23/00,C12R1:645)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12P C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 96 09393 A (REYNOLDS TECHNOLOGIES INC ;BIOSOURCE TECH INC (US); HANLEY KATHLEE) 28 March 1996 (1996-03-28) page 7; figure 4	1,2, 5-18, 20-25
X	ROBINSON G W ET AL: "CONSERVATION BETWEEN HUMAN AND FUNGAL SQUALENE SYNTHETASES: SIMILATITIES IN STRUCTURE, FUNCTION, AND REGULATION" MOLECULAR AND CELLULAR BIOLOGY, WASHINGTON, DC, US, vol. 13, no. 5, 1 May 1993 (1993-05-01), pages 2706-2717, XP000604626 ISSN: 0270-7306 figure 4	1,2,5-13

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☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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